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Cc: [BAYUK Dana](#)
Subject: Gasco Offshore Sampling
Date: 08/16/2007 01:33 PM

Hello All,

As you may recall, DEQ is overseeing NW Natural's efforts to characterize transition zone water (TZW) related to release at their Gasco facility. NW Natural agreed to conduct this additional work to address TZW data gaps. As such this work is in-water RI related.

NW Natural is conducting the Phase 2 Offshore Field Sampling Approach (Phase 2 FSA) project in the river. The Phase 2 FSA involves collecting sediment, TZW, and groundwater samples offshore of the Gasco Site and the northern portion of the Siltronic facility. The Phase 2 FSA is organized into two "steps." Step 1 (which was recently completed) provides data to assess TZW and shallow groundwater chemistry beneath the Willamette River in the area of investigation. Based on the results of Step 1, a Step 2 field program was developed. During Step 2, deep drilling will occur and: 1) sediment samples will be collected to a depth of approximately 15 feet below mudline; and 2) groundwater sampling will be conducted down to the basalt. The purpose of the Step 2 program is to augment the Step 1 data which included TZW by collecting contaminant data along the axis of the groundwater plumes to fill in the picture between the uplands and the TZW discharge areas.

DEQ is forwarding under separate e-mail the Step 1 Data Package for your information and review. As our goal is to finalize the Step 2 boring locations no later than mid-day August 23rd, we are requesting written comments by August 22nd. Based on availability, the drilling and barge contractors are scheduled to initiate Step 2 field work on August 27th.

If there is interest, DEQ can schedule a conference call to discuss the Step 2 field work on either the afternoon of August 22nd or the morning of August 23rd. I apologize for the late notice, but as you will note on the forwarded e-mails, DEQ just received the complete proposal.

To facilitate your review of the Step 1 Data Package, DEQ suggests focusing on figures 1 through 8 included in file "Phase 2 Step 2 Approach Part 1.pdf." Note that at the time the Step 1 Data Package was prepared not all data was available, including PAHs and metals. This was anticipated prior to initiating Step 1 given the turn-around times for analysis for these parameters.

I'm forwarding three e-mails from NW Natural that provide the sampling and analytical results for Step 1 of the Phase 2 FSA (Step 1 Data Package). The Step 1 Data Package is organized into three parts corresponding to each of the three e-mails. Each part/e-mail provides information according to the scheme laid out in Anchor Environmental's "Part 1" e-mail provided below.

Step 2 borings were located at selected Step 1 sampling sites listed below (Step 2 transects are listed from downstream to upstream).

- Transect #1 - two borings at GS-B2 and BG-C2
- Transect #2 - three borings at GS-B5, GS-C5, and BS-D2

- Transect #3 - three boring at GS-B7, GS-C7, and GS-D4.

Step 2 boring locations are shown on Figure 11 in the file named "Phase 2 Step 2 Approach Part 3.pdf." This file also provides tables summarizing the Step 2 drilling, sampling, and analytical program, and are taken from the approved Phase 1 Report/Phase 2 Work Plan dated May 2007 (Phase 2 Work Plan).

DEQ views the overall goal of Step 2 to be collecting data to assess the fate and transport of Gasco Site COI along the axes of uplands groundwater plumes projected offshore. With this goal in mind, Step 2 transects are: 1) aligned perpendicular to Step 1 transects B, C, and D; 2) located where the highest concentrations of cyanide (Transect #1), benzene (Transect #3), naphthalene (Transect #2), and toluene (Transect #2) were detected during Step 1; and 3) oriented along the axes of groundwater plumes interpreted from data collected during the Phase 1 FSA (see figures 5a through 5c of the Phase 1 Report/Phase 2 Work Plan dated May 2007).

Please contact Dana Bayuk via e-mail (bayuk.dana@deq.state.or.us) or by telephone (503/229-5543) with questions, comments or to request a teleconference.

Thanks in advance for your attention to this e-mail and your time in reviewing the Step 1 Data Package.

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